LoRaWAN Module

ME25LS01

Datasheet

V 1.0.0

ME25LS01-LR1110+nRF52840

High-performance, long-range, small-size, ultra-low-power, supports WiFi-scan/GNSS/BLE/LoRaWAN multi-protocol

The ME25LS01 is a highly-performance, long-range,ultra-low power, Small size, support WiFi-scan/GNSS(GPS/BDS)/BLE5.3/LoRaWAN and other multi-protocols, and has a large storage capacity of 256KB RAM and 1MB Flash. The ME25LS01 has better reception sensitivity, with BLE as low as -96dBm and LoRa as low as -125.6dBm, and , the maximum power of BLE is 6dBm and the maximum power of LoRa is 22dBm, which is available for longer transmission distances. the power supply voltage of the module is 3.3V, and there are abundant GPIOs. and has a completely open-source development platform, which supports customers' secondary development and customisation needs.

FEATURES

Cortex M4 high performance MCU

Low power, dual low power chip combination

BLE 5.3, supports BLE long-range

Abundant IO ports, USB, Uart, I2C, etc

Open-source development platform

KEY PARAMETER

ME25LS01			
Chip Model	LR1110+nRF52840	**Antenna**	ANT pin
Module Size	25.5x20x2.6mm	**GPIO**	44
Flash	1MB	**RAM**	256KB
Receiving Sensitivity	BLE： -96dBm LoRa: -125.6dBm	**Transmission Power**	BLE:-40-+8dBm LoRa: 22dBm
Current(TX)	Max- 118mA	**Current(RX)**	Max-10.7mA

APPLICATION

Agricultural automation

Asset tracking

Inventory management

Livestock tracking

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RELATED DOCUMENTS

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  https://en.minewsemi.com/file/LR1110_Chip_Datasheet_EN.pdf
- nRF52840_Chip_Datasheet
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- MinewSemi_Product_Naming_Reference_Manual_V1.0
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